

APPENDIX G
SPIRIT POINT SUMMARY TABLES

APPENDIX G1 Maintenance Facilities

SPIRIT Summary Table		Maximum points possible	Construction cost impact	Design cost impact	Proposed/Earned Points	
PAR	FEATURE					REMARKS
CATEGORY 1 - SUSTAINABLE SITES						
1.R1	Sediment/Erosion Control Plan	R		R	R	Requirements will be incorporated into contract documents.
1.C1	Avoid undesirable sites	1			1	Site meets all criteria it is 10' above FEMA 100yr flood, which exceeds the reqd 5'. Public Flood Map 1301230160A
	Site adjacencies/compatibility	1			1	Site meets criteria.
1.C2	Increase density	1			1	Site meets criteria.
	Minimize new infrastructure	1			1	Site meets criteria.
1.C3	Brownfield	1			1	Site meets criteria.
1.C4	Proximity to transit system	1			0	Site does not meet criteria. The Installation currently has no transit system. Public bus lines alongside Installation boundary are too far to qualify.
	Bike racks & showers	1			1	A bike rack can be provided at the entrance. Must meet 5% requirement. All occupants have access to showers.
	Proximity to alternative fuel station	1			0	Site does not meet criteria.
	Parking capacity, carpool parking	1			0	No carpool parking provided.
1.C5	Limited site disturbance, restoration	1			0	Native habitat restoration at 50% of the open area conflicts with functional requirements for use.
	Reduced footprint	1			0	Item conflicts with functional requirements for use.
1.C6	Stormwater runoff rate	1			1	Requirements incorporated into contract documents.
	Stormwater treatment	1			1	New NPDES requirements may be implemented and runoff may require treatment
1.C7	Reduce site heat islands	1			0	Design does not earn this point.
	Reduce roof heat islands	1			0	Current design does not earn this point. Aesthetic requirement to match roof color of adjacent barracks takes precedence.
1.C8	Reduce light pollution	1			1	Project design will earn this point. Cutoff light fixtures will be used to eliminate direct beam light leaving site
1.C9	Optimize site features	1			0	Project design will not earn this point.
1.C10	Cluster facilities	1			1	Project site development earns this point.
	Mitigate offsite impacts	1			0	Site located will within Installation.
1.C11	Site Ecology	1			0	Project does not create habitat.
CATEGORY 2 – WATER EFFICIENCY						
2.C1	High efficiency irrigation/recycle site water	1			1	No irrigation required.
	No irrigation	1			1	No irrigation required.
2.C2	Innovative wastewater technologies	1			0	Project plumbing system design will not pursue this requirement.
2.C3	20% Water use reduction	1			0	Project plumbing system design will not pursue this requirement.
	30% Water use reduction	1			0	Project plumbing system design will not pursue this requirement.
CATEGORY 3 – ENERGY AND ATMOSPHERE						
3.R1	Building commissioning	R		R	R	Project requirement.
3.R2	Minimum energy performance	R		R	R	Project requirement.
3.R3	CFC Reduction	R		R	R	Project requirement.
3.C1	Optimize energy performance	20	x	x	4	Project mechanical systems design will pursue potential point(s) in this category. Opportunities for heat recovery of outside air (depending on availability of space), and the use of other energy efficient devices (high efficiency motors, VFD's for pumps, etc.) will be pursued.
3.C2	5% Onsite renewable energy	1			0	Project mechanical systems design will not meet this requirement.
	10% onsite renewable energy	2			0	Project mechanical systems design will not meet this requirement.
	15% onsite renewable energy	3			0	Project mechanical systems design will not meet this requirement.
	20% onsite renewable energy	4			0	Project mechanical systems design will not meet this requirement.
3.C3	Additional commissioning	1	x	x	1	Project mechanical systems design will pursue this point.
3.C5	Measurement and verification	1	x		1	Project mechanical systems design will pursue this point, however, cost implication may dictate otherwise.

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SPIRIT Summary Table		Maximum points possible	Construction cost impact	Design cost impact	Proposed/Earned Points	
PAR	FEATURE					REMARKS
3.C6	Green power	1			0	Project will not pursue this point
3.C7	Distributed generation	1			0	
CATEGORY 4 – MATERIALS AND RESOURCES						
4.R1	Storage & collection of recyclables	R		R	R	Plan is to enlarge each dumpster pad to provide space for receptacles for newspaper, aluminum cans, glass and plastic soda type bottles. Need to coordinate with Installation on receptacle sizes and pickup.
4.C1	Building reuse	3			0	Project will not earn this point, which is not applicable.
4.C2	Reduce construction waste	1	x		*	Project will earn this point. UFGS 01572 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT will be included in specifications requiring a waste management plan that diverts at least 50%. Use of Installation landfill will be prohibited.
	Reduce construction waste additional 25%	1			0	Project will not pursue this point due to additional first cost, uncertainty about availability of recycling sources.
4.C3	Salvage/reused materials	1			0	Project will not pursue this point
	Salvage/reused for 10% of building materials	1			0	Project will not pursue this point. The repetitive nature of the design and the large quantities do not present opportunities for extensive use of salvaged/refurbished materials.
4.C4	Materials recycled content	1		x	1	Project will pursue this point. The following materials' recycled content will contribute - steel, concrete, aluminum roof and ceiling panels and rubber wall base
	Additional materials recycled content	1			0	Project will not pursue this point.
4.C5	Regionally manufactured materials	1		x	1	Project will pursue this point. The following materials will contribute – block/concrete .
	Regionally extracted materials	1			0	Project will not pursue this point. Insufficient research to determine potential to meet goal.
4.C6	Rapidly renewable materials	1			0	Project will not pursue this point. Material requirements and project budget do not lend themselves to these types of materials.
4.C7	Certified wood	1			0	Project will not pursue this point. Product is not readily available in this region and is more costly.
CATEGORY 5 – INDOOR ENVIRONMENTAL QUALITY						
5.R1	Minimum IAQ performance	R		R	R	Project requirement.
5.R2	Environmental tobacco smoke	R		R	R	Project requirement. Assume smoking is prohibited in the vehicle maintenance facilities. Need to confirm this with Installation. No Smoking signage will be provided.
5.C1	IAQ monitoring	1			1	Project mechanical systems design will meet this requirement.
5.C2	Increase ventilation effectiveness	1			0	Project will not pursue this point.
5.C3	SMACNA/absorptive mtl/filtration	1	x		1	Project mechanical systems design will pursue this point by requiring contractor to follow SMACNA IAQ guidelines.
	Flushout/baseline IAQ test	1			1	Project mechanical systems design will pursue this point by requiring two-week bldg flushout. Beneficial Occupancy Date scheduling could potentially effect acquiring this point, also, bldg flushout in winter may not be desirable.
5.C4	Adhesive/sealant VOC	1			0	Adhesives and sealants specified to meet VOC criteria.
	Green Seal paints & coatings	1			0	Paints and coatings specified to meet VOC criteria.
	CRI Green Label carpet	1			0	Project will not pursue this point. There is no carpet.
	No urea/formaldehyde resins	1			0	Project will not pursue this point.
						Project will pursue this point. Janitor closets are separately exhausted. No areas of mixing of water and chemical concentrates are anticipated.
5.C5	Indoor pollutant source control	1			1	
5.C6	Operable windows, perimeter light controls	1			0	Project will not pursue this point. Operable windows are not provided.
	Non-perimeter controls	1			0	Project will not pursue this point. It is not applicable.
5.C7	ASHRAE thermal comfort stds	1			0	Project mechanical systems design will not pursue this point.
	Temperature/humidity monitoring	1			0	Project mechanical systems design will not pursue this point. Since humidity is not a direct-controlled variable, monitoring will not be provided.
5.C8	75% daylighting	1			0	Project will not pursue this point. Indirect daylighting is not provided.

APPENDIX G1
Maintenance Facilities

		Maximum points possible	Construction cost impact	Design cost impact	Proposed/Earned Points	
	SPIRIT Summary Table					
PAR	FEATURE					REMARKS
	90% outdoor view	1			0	Project will pursue this point.
5.C9	Noise control	1			0	Project will not pursue this point.
5.C10	IAQ management plan	1			0	Project mechanical systems design will not pursue this point since permanent monitoring of CO, CO2, TVOC's (Total Volatile Organic Compounds) will not be provided due to potential cost implications and maintenance requirements of sensors.
	<u>CATEGORY 6 – FACILITY DELIVERY PROCESS</u>					
6.C1	Team leader experience	1			1	Project will pursue this point.
	Train team	1			0	Project will not pursue this point.
	Identify project goals	1		x	1	Project will pursue this point. Budget/Schedule/Sustainability
	Charettes	1			1	Charrette May 20 - 22.
	Resolve tradeoffs	2		x	2	Project will pursue these points through the design submittal review and VE processes.
	Document results	1			1	Project will pursue this point.
	<u>CATEGORY 7 – CURRENT MISSION</u>					
7.C1	Develop O&M plan	2	x	x	2	Project will pursue these points. Contractor will be required to develop comprehensive plan and training that meets criteria.
	Durable materials	1			1	Project will pursue this point. Materials specified meet criteria.
7.C2	Quality indoor environment	1			1	Project will pursue this point. Design meets criteria.
	Functional work environment	1			1	Project will pursue this point.
	Healthy work environment	1			1	Project will pursue this point.
	<u>CATEGORY 8 – FUTURE MISSIONS</u>					
8.C1	Determine functional life	1			1	The designed function is expected to occupy the facility for the expected facility lifespan of 25 years.
	Determine building life	1			1	Project will pursue this point.
8.C2	Design for future uses	1			0	Project will not pursue this point due to the unique nature of this facility type and it's limited conversion potential.
	Minimize building size	1			1	Project will pursue this point.
	TOTAL	100			39	
NOTE:	SEE SPIRIT TEXT FOR FULL DESCRIPTION OF REQUIREMENTS FOR EACH ITEM.					
	COMPLIANCE IS REQUIRED IF "R" OR A NUMBER GREATER THAN ZERO APPEARS IN THE MANDATORY POINTS COLUMN					

APPENDIX G2
COMPANY OPERATIONS FACILITY

SPIRIT Summary Table - COF		Maximum points possible	Mandatory Points	Proposed/Earned Points	
PAR	FEATURE				REMARKS
NOTE: SEE SPIRIT TEXT FOR FULL DESCRIPTION OF REQUIREMENTS FOR EACH ITEM.					
COMPLIANCE IS REQUIRED IF "R" OR A NUMBER GREATER THAN ZERO APPEARS IN THE					
MANDATORY POINTS COLUMN					
1.R1	Sediment/Erosion Control Plan	R	R	R	Project requirement
1.C1	Avoid undesirable sites	1			
	Site adjacencies/compatibility	1	0	0	
1.C2	Increase density	1	1	1	
	Minimize new infrastructure	1	0	0	
1.C3	Brownfield	1	0	0	
1.C4	Proximity to transit system	1	0	0	N/A
	Bike racks & showers	1	1	1	Project requirement
	Proximity to alternative fuel station	1	0	0	N/A
	Parking capacity, carpool parking	1	0	0	N/A
1.C5	Limited site disturbance , restoration	1	0	0	
	Reduced footprint	1	0	0	
1.C6	Stormwater runoff rate	1	1	1	Project requirement
	Stormwater treatment	1			
1.C7	Reduce site heat islands	1			
	Reduce roof heat islands	1	0	0	Conflict with project rqmts
1.C8	Reduce light pollution	1	1	1	Project requirement
1.C9	optimize site features	1			
1.C10	Cluster facilities	1	1	1	Site meets criteria
	Mitigate offsite impacts	1			
1.C11	Site Ecology	1	0	0	
2.C1	High efficiency irrigation/recycle site water	1			coord w/base landscape arch
	no irrigation	1			coord w/base landscape arch
2.C2	Innovative wastewater technologies	1			
2.C3	20% Water use reduction	1			
	30% Water use reduction	1			
3.R1	Building commissioning	R	R	R	Project requirement
3.R2	Minimum energy performance	R	R	R	
3.R3	CFC Reduction	R	R	R	Project requirement
3.C1	Optimize energy performance	20	1	1	
3.C2	5% Onsite renewable energy	1			
	10% onsite renewable energy	2			
	15% onsite renewable energy	3			
	20% onsite renewable energy	4			
3.C3	Additional commissioning	1	1	1	
3.C5	Measurement and verification	1			
3.C6	Green power	1	0	0	N/A
3.C7	Distributed generation	1			
4.R1	Storage & collection of recyclables	R	R	R	Project requirement
4.C1	Building reuse	3	0	0	N/A
4.C2	Reduce construction waste	1			
	Reduce construction waste addl	1			

APPENDIX G2
COMPANY OPERATIONS FACILITY

4.C3	Salvage/reused materials	1			
	Salvage/reused materials addl	1			
4.C4	Materials recycled content	1			
	Addl materials recycled content	1			
4.C5	Regionally manufactured materials	1			
	Regionally extracted materials	1			
4.C6	Rapidly renewable materials	1			
4.C7	Certified wood	1			
5.R1	Minimum IAQ performance	R	R	R	Project requirement
5.R2	Environmental tobacco smoke	R	R	R	Project requirement
5.C1	IAQ monitoring	1			
5.C2	Increase ventilation effectiveness	1	0	0	
5.C3	SMACNA/absorptive mtl/filtration	1	1	1	Project requirement
	Flushout/baseline IAQ test	1	1	1	Project requirement
5.C4	Adhesive/sealant VOC	1			
	Green Seal paints & coatings	1	1	1	Project requirement
	CRI Green Label carpet	1	1	1	
	No urea/formaldehyde resins	1			
5.C5	Indoor pollutant source control	1			
5.C6	Operable windows, perimeter light controls	1	1	1	Project requirement
	Non-perimeter controls	1			
5.C7	ASHRAE thermal comfort stds	1	0	0	
	Temperature/humidity monitoring	1	0	0	
5.C8	75% daylighting	1			No skylights allowed
	90% outdoor view	1			
5.C9	Noise control	1	1	1	Project requirement
5.C10	IAQ management plan	1			
6.C1	Team leader experience	1			
	Train team	1	1	1	Project requirement
	Identify project goals	1			Need to do
	Charettes	1			Need to do
	Resolve tradeoffs	2			Need to do
	Document results	1			Need to do
7.C1	Develop O&M plan	2			
	Durable materials	1	1	1	Project requirement
7.C2	Quality indoor environment	1	1	1	Project requirement
	Functional work environment	1	1	1	Project requirement
	Healthy work environment	1	1	1	Project requirement
8.C1	Determine functional life	1			Need to do
	Determine building life	1			Need to do
8.C2	Design for future uses	1			
	Minimize building size/recyclability	1			
	TOTAL	100			